

PATENT ABSTRACTS OF JAPAN

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(21) Application number : 11-160032 (71) Applicant : ASAHI OPTICAL CO LTD

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(54) SWALLOW TYPE ENDOSCOPIC DEVICE

(57) Abstract:

PROBLEM TO BE SOLVED: To lessen the pain on a testee and to enable detailed and sure observation by disposing curving parts in part of an endoscope consisting of a bar-like body and building illumination means, observation means, a signal transmission means for radio transmitting the observation obtained by the observation image and a power source supply means into bar-like body.

SOLUTION: An endoscope body has, successively from its front end, a first rigid part 12, a first curvilinear drive part 13, a first flexible part 14, a second curvilinear drive part 15 and a second rigid part 16 and is covered with an outer cover elastic material over the entire part. The observation means 17 of the first rigid part 12 is formed as a



direct view type for observing the axial direction of the endoscope body and the observation means 17 of the second rigid part 16 is formed as a side view type for observing a direction orthogonal with the axial direction of the endoscope body. A manipulation signal from an extracorporeal signal transmission section of an external apparatus is received by a signal reception/transmission means 14b and remotely manipulates the respective parts. Illumination light is supplied by an LED to the illumination window 18 of the first and second rigid part 12 and 16. The image of a subject is formed at a CCD 17b, is amplified in an amplifier circuit 14a and is transmitted from the signal reception/transmission means 14b.